FIGURE 1A

```
   1 CCCCGCGTCGGTCTTCCACCTCACCTTTCGAGCTGGCCGCCGCTTGCTGTGCGCAGTTTC   60
  61 GGGGGACTGGACCTTCCCTGGCTTTTAGCAGCGCCGAGCGCCATGGCGACCCTTTGCTGG  120
 121 GCAGGTGACCGATTCCGGGTGCCCGAAGGAGCTGGCGTGGGTCTGCCTTGCAGCCGCCCG  180
 181 CCTGGACAGGATGTTTGCTAGAGGGCTGAAGAGGAAATATGGTGACCAGGAAGAAGGAGT  240
   1            M  F  A  R  G  L  K  R  K  Y  G  D  Q  E  E  G  V   17
 241 AGAGGGTTTTGGCACTGTCCCTTCCTATAGCCTGCAGCGACAGTCACTCCTGGACATGTC  300
      E  G  F  G  T  V  P  S  Y  S  L  Q  R  Q  S  L  L  D  M  S   37
 301 CCTTGTCAAGCTCCAGCTCTGTCACATGCTAGTGGAGCCCAATCTCTGCCGCTCGGTCCT  360
      L  V  K  L  Q  L  C  H  M  L  V  E  P  N  L  C  R  S  V  L   57
 361 CATCGCCAACACAGTCCGGCAGATCCAGGAGGAAATGAGCCAGGATGGTGTGTGGCATGG  420
      I  A  N  T  V  R  Q  I  Q  E  E  M  S  Q  D  G  V  W  H  G   77
 421 GATGGCACCCCAGAATGTAGATCGGGCACCAGTTGAACGCCTGGTGTCCACAGAGATCCT  480
      M  A  P  Q  N  V  D  R  A  P  V  E  R  L  V  S  T  E  I  L   97
 481 GTGTCGTACAGTGAGGGGAGCTGAGGAAGAGCACCCTGCTCCTGAACTGGAAGATGCTCC  540
      C  R  T  V  R  G  A  E  E  E  H  P  A  P  E  L  E  D  A  P  117
 541 CTTGCAAAACTCGGTTTCCGAGCTCCCCATCGTTGGCTCAGCACCAGGGCAAAGGAACCC  600
      L  Q  N  S  V  S  E  L  P  I  V  G  S  A  P  G  Q  R  N  P  137
 601 TCAGAGCAGCCTCTGGGAGATGGACAGCCCACAAGAAAACAGGGGAAGCTTTCAGAAGTC  660
      Q  S  S  L  W  E  M  D  S  P  Q  E  N  R  G  S  F  Q  K  S  157
 661 ACTGGACCAGATATTTGAGACCCTGGAGAACAAAAACTCCAGTTCAGTGGAGGAACTCTT  720
      L  D  Q  I  F  E  T  L  E  N  K  N  S  S  S  V  E  E  L  F  177
 721 CTCAGATGTGGACAGCTCCTACTATGACCTGGACACAGTGCTAACAGGAATGATGAGTGG  780
      S  D  V  D  S  S  Y  Y  D  L  D  T  V  L  T  G  M  M  S  G  197
 781 GACCAAGTCCAGTCTCTGCAATGGCCTTGAGGGCTTTGCTGCAGCCACCCCTCCTCCCAG  840
      T  K  S  S  L  C  N  G  L  E  G  F  A  A  A  T  P  P  P  S  217
 841 TTCCACTTGCAAGTCTGACCTGGCTGAGCTGGACCATGTGGTAGAGATTCTGGTGGAGAC  900
      S  T  C  K  S  D  L  A  E  L  D  H  V  V  E  I  L  V  E  T  237
 901 CTGAGAGGCCACCCCAGTGGGCTAAGGGTGAGGCCACCAGTCCCCATGGAGCTCACGTGT  960
      *
 961 GTTGTGACCCAGAGACAGATAAGCACTTGTCCTAAGAGGGGCTCTGGCTCTTGAGCTCAT 1020
1021 TATCCTTTTGTGTGACATTGGACTCACTGTGGAGGATGGTGTGTCACAGCTATGTCTAGT 1080
1081 CTATTTTCAATTAGATAGGTGAACTTTCTAAAATTAAGTTTTATATGTTTTTGGGCAATA 1140
1141 TTTTGTCTTAAGATATATTTTTTAAACTTTTTATACTTTAGATTTTTTTCAGCTATTTTC 1200
1201 TTAAAAGTATATTTTTTCTACAAACATCCTCTGCTGCTACATTAGAAACATTTATAACCT 1260
1261 AAATACGATTGGTGTGTCATTTTAAAGGTTTAAATAGAAAACTTCTTTTGTTACTGAGTC 1320
1321 TCTACACTCCCAAGGCAACTGTAAATGTAGCCGGCCGGGTGTTTACATGAGAGGCTCCAG 1380
1381 TATGGTCTACATTCTAGTAGAGCTTGAAAAGAACCATGCACAGCTCCACTGCCCCCTCAC 1440
1441 TGGGTCTGCTCTGGCGGATCGGAGCTCTCTTCCTAGCCCCGTGTGCAGGATGGCTTTATT 1500
1501 TATGCCTATTTATATGTAAATGCCACTGAAAGCTAAGGTCTTACTCCTGGAAATCCCAAC 1560
1561 ACCAGTTCTTCAGGGACTGCTGTGAGGCAGTGCCTTATGCAGGTCTTGTCCTTGGCCATC 1620
1621 ACTGTCTGGTTCCCAGCCCAGCACATGTGACATGAGGACATGACATGCCCGAACCACCCA 1680
1681 GCACCACATGCTCCATGTCAAGTGTGTACGTGGAGACCACTGGCTCCCAGGCCTGTGCTC 1740
1741 AGAGAGGGTGTGCAGTCCTACGTGTGCTGGGGGGGACGACGGTGACCTGTGCTTGCTTGC 1800
1801 TTTTAAAATGGTGCTTGGACGTTTTAAGGTTAAAAACAATCCGACTCCATATGATTTAGG 1860
1861 GCTCCTCCACCCTGGGGTGGCCCCTATGCTGTCTGCTTGGATCTCAAAGTCTTGGTACTC 1920
1921 GGCACTGTCAGACTCCACCCCATGTATCCTTTTTGTTTCTCTTGTGCTTTTTTTGGACTT 1980
1981 CCCAACCTGAGCCTAAGGTTTTATTTTATATGTGCTTCAATATCAACAATGTAAACCTCA 2040
2041 CTTTATTAAAGTATCCAGCAAATGGAAAAAAAAAAAAAAAA
```

FIGURE 1B

```
   1 GGGAAGCTGGCGGCACAGCCGTGGCGCCTGGCTGAGCAGAGGACCCGGCGGGCGGCCTCG    60
  61 CGGGTCAGGACACAATGTTTGCACGAGGACTGAAGAGGAAATGTGTTGGCCACGAGGAAG   120
   1              M  F  A  R  G  L  K  R  K  C  V  G  H  E  E  D    16
 121 ACGTGGAGGGAGCCCTGGCCGGCTTGAAGACAGTGTCCTCATACAGCCTGCAGCGGCAGT   180
      V  E  G  A  L  A  G  L  K  T  V  S  S  Y  S  L  Q  R  Q  S    36
 181 CGCTCCTGGACATGTCTCTGGTGAAGTTGCAGCTTTGCCACATGCTTGTGGAGCCCAACC   240
      L  L  D  M  S  L  V  K  L  Q  L  C  H  M  L  V  E  P  N  L    56
 241 TGTGCCGCTCAGTCCTCATTGCCAACACGGTCCGGCAGATCCAAGAGGAGATGACGCAGG   300
      C  R  S  V  L  I  A  N  T  V  R  Q  I  Q  E  E  M  T  Q  D    76
 301 ATGGGACGTGGCGCACAGTGGCACCCCAGGCTGCAGAGCGGGCGCCGCTCGACCGCTTGG   360
      G  T  W  R  T  V  A  P  Q  A  A  E  R  A  P  L  D  R  L  V    96
 361 TCTCCACGGAGATCCTGTGCCGTGCAGCGTGGGGGCAAGAGGGGGCACATCCTGCTCCTG   420
      S  T  E  I  L  C  R  A  A  W  G  Q  E  G  A  H  P  A  P  G   116
 421 GCTTGGGGGACGGCCACACACAGGGTCCAGTTTCTGACCTTTGCCCAGTCACCTCAGCAC   480
      L  G  D  G  H  T  Q  G  P  V  S  D  L  C  P  V  T  S  A  Q   136
 481 AGGCACCAAGGCACCTGCAGAGCAGCGCCTGGGAGATGGATGGCCCTCGAGAAAACAGAG   540
      A  P  R  H  L  Q  S  S  A  W  E  M  D  G  P  R  E  N  R  G   156
 541 GAAGCTTTCACAAGTCACTTGATCAGATATTTGAAACGCTGGAGACTAAAAACCCCAGCT   600
      S  F  H  K  S  L  D  Q  I  F  E  T  L  E  T  K  N  P  S  C   176
 601 GCATGGAAGAGCTGTTCTCAGACGTGGACAGCCCCTACTACGACCTGGACACAGTACTGA   660
      M  E  E  L  F  S  D  V  D  S  P  Y  Y  D  L  D  T  V  L  T   196
 661 CAGGCATGATGGGGGGTGCCAGGCCGGGCCCCTGCGAAGGGCTCGAGGGCTTGGCTCCGG   720
      G  M  M  G  G  A  R  P  G  P  C  E  G  L  E  G  L  A  P  A   216
 721 CCACCCCAGGCCCTAGCTCCAGCTGCAAGTCCGACCTGGGCGAGCTGGACCACGTGGTGG   780
      T  P  G  P  S  S  S  C  K  S  D  L  G  E  L  D  H  V  V  E   236
 781 AGATCCTGGTGGAGACCTGAGCAGGAGCCCTGAGTGCTCACAGCCGCCTCTGACGCATTG   840
      I  L  V  E  T  *                                             241
 841 ACACGTGAGCACTGGCTCCCACGGAGGGTGCGCCTGCCGCCAGCGGCCCAGCCTTGCTGC   900
 901 CCTGTCTGCTGATTCTGAGAAATCCCAGAACAGCCCATTACCAGTGGGGCTGCAGCCCTA   960
 961 GGCCCGTCCCACTCACCTCCCCCCTGTGGAGCGCCAGGCAGAGGCTGTTCTGGAAGGCTT  1020
1021 CTTGTCTTCTGACGTCCCCACAGCCCTGGGCCCCTCGTGTCTCTTTGTGTCCCCCACTGT  1080
1081 AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTTA  1140
1141 CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT  1200
1201 TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA  1260
1261 CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA  1320
1321 TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTGTTTTGTTTTTTGCAGTGAGCATCAC  1380
1381 TACAGTCTCAGTCAACAGTGTGAATGTATCATGTTTTACTTTAAATGTGTGTGTGATACT  1440
1441 TCTTCATTATGTCCTGCGCTGCAGTGAGACCTGGGTGAAAATCAGGAGCCGCACACAGCC  1500
1501 ACATCTTCCTAGACCTAAGAGTAAATTATGGAGGATTTTATTTATGTCTATTTATATGTA  1560
1561 AATGTCATTGAAGACAAAGGTCAAATATTTGTCTGTTTGTAGATCACAGGCACCAGTTGG  1620
1621 TCTTCAGGGACCTCATAGCCCCTCGGTGGTGCCTTCTCAAGGCAGTGTTCCTGGAGGCTC  1680
1681 CCATCAGGGTCAGCCCATGCACCTGCCCTGGGTGAGGAAGTAGCATTGCTGCTGGATGAG  1740
1741 AAACGCCTGCGCTGCTCTGTTAGACTGGTGCTGAAACAAAAGGTTAAGGCTAGGTTGAAG  1800
1801 TCTAGAATGAAAGAAATCTGAATCCATGTCATTCATAACCCCTTGATCTGTAGTGTCATG  1860
1861 GGTGCTGCCGCAGGCAGGGAGTGAGCTGGGGGTGCCTGCAGCCTTCCACTCCTGCCCCGC  1920
1921 CTCACCCCACATGCTCCCTGTTTCTCATGCTTTCTCTAACTTCCTCACCCCTTAACCAAA  1980
1981 AAGGTGTGTTTTCTTTTGTGCATATAGCCATTCTTAAATATCAGTGATGTAAACCTCACT  2040
2041 TTATTAAAAATTATCCAGCAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 2

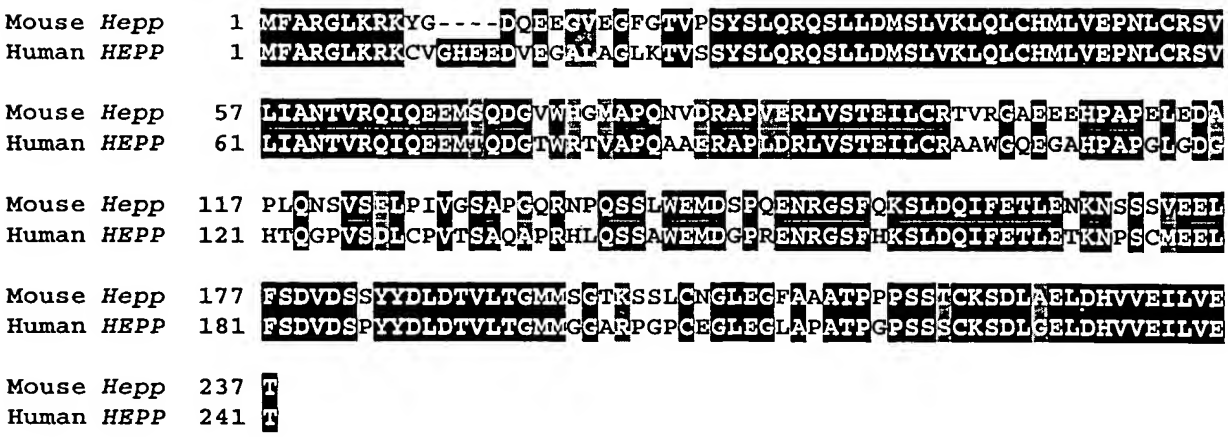


FIGURE 3

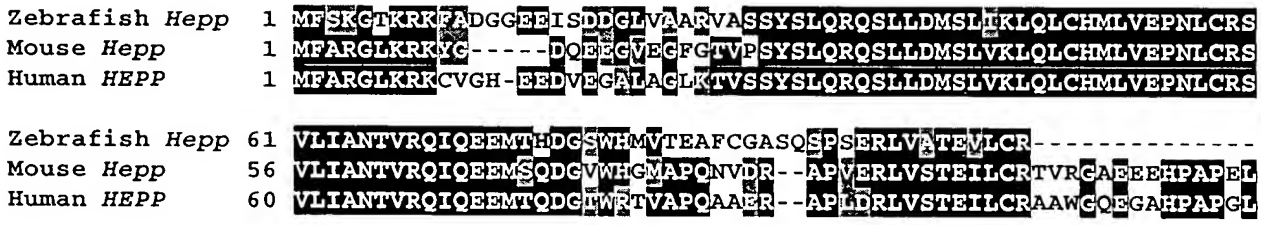


FIGURE 4B

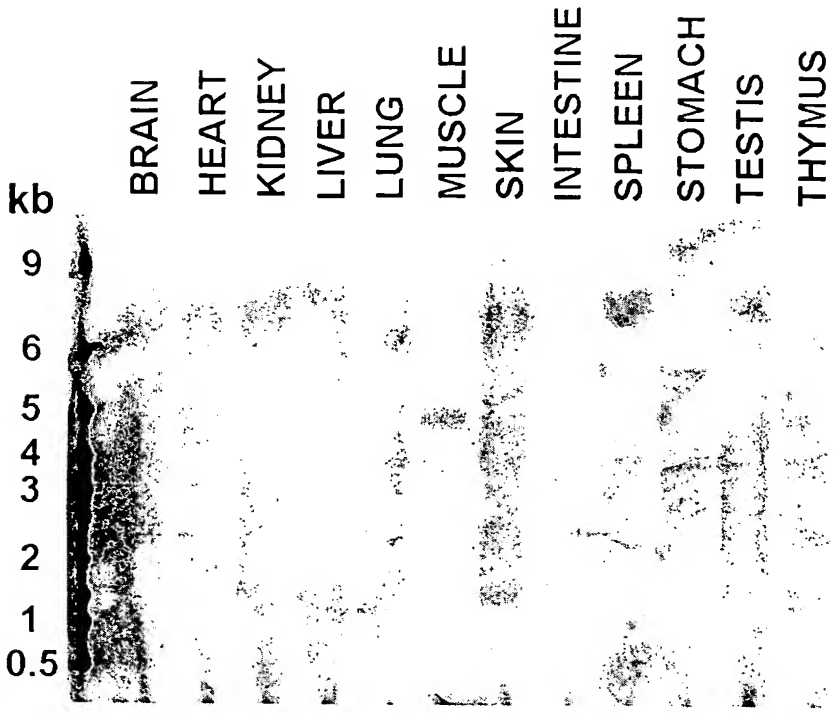


FIGURE 4A

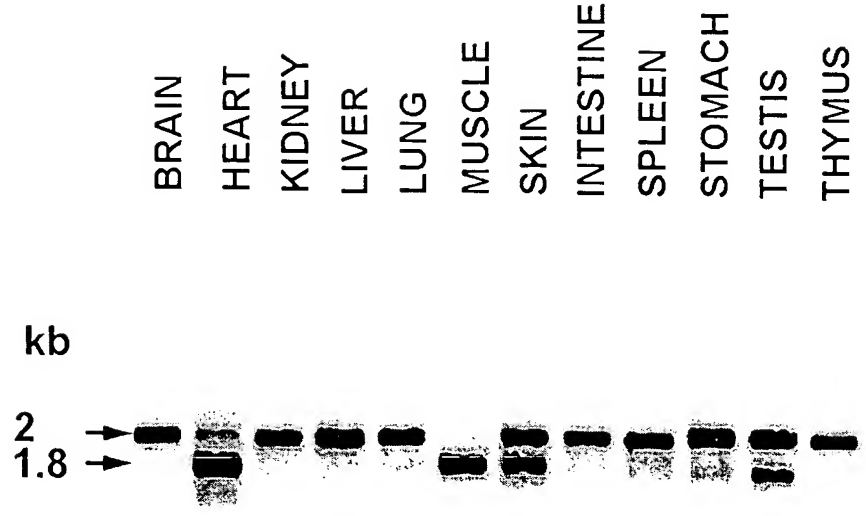


FIGURE 5

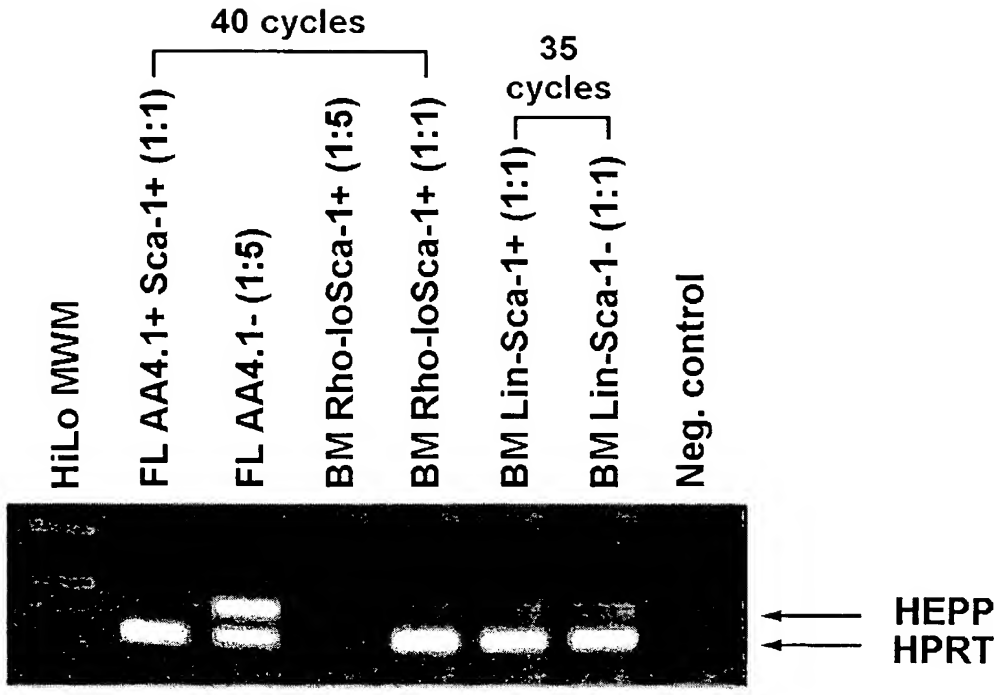


FIGURE 6

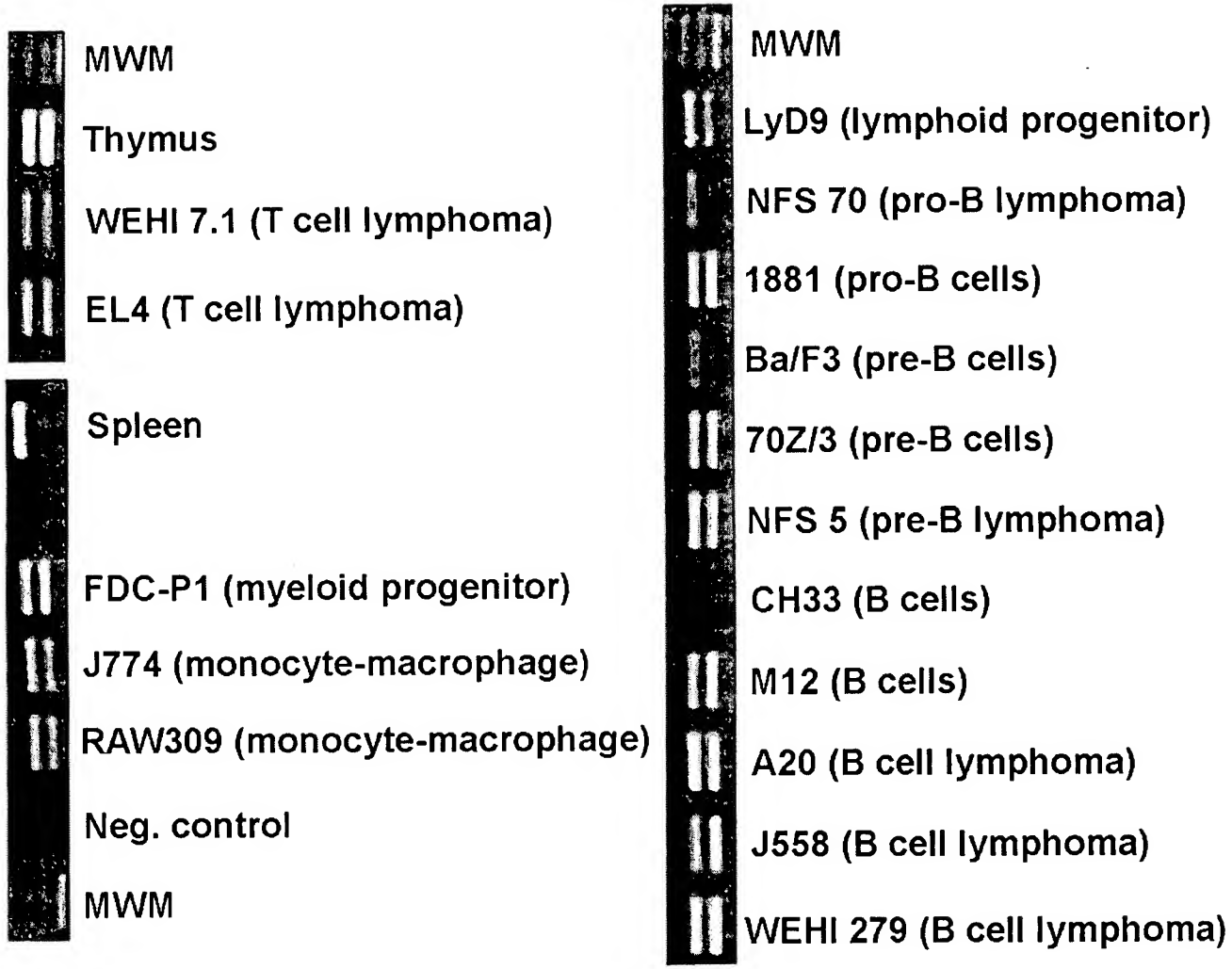
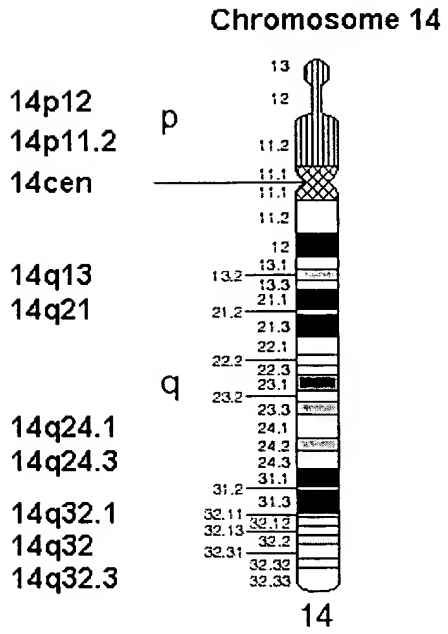

MWM
Thymus
WEHI 7.1 (T cell lymphoma)
EL4 (T cell lymphoma)
Spleen
FDC-P1 (myeloid progenitor)
J774 (monocyte-macrophage)
RAW309 (monocyte-macrophage)
Neg. control
MWM
MWM
LyD9 (lymphoid progenitor)
NFS 70 (pro-B lymphoma)
1881 (pro-B cells)
Ba/F3 (pre-B cells)
70Z/3 (pre-B cells)
NFS 5 (pre-B lymphoma)
CH33 (B cells)
M12 (B cells)
A20 (B cell lymphoma)
J558 (B cell lymphoma)
WEHI 279 (B cell lymphoma)

FIGURE 7



translocation breakpoints

FIGURE 8

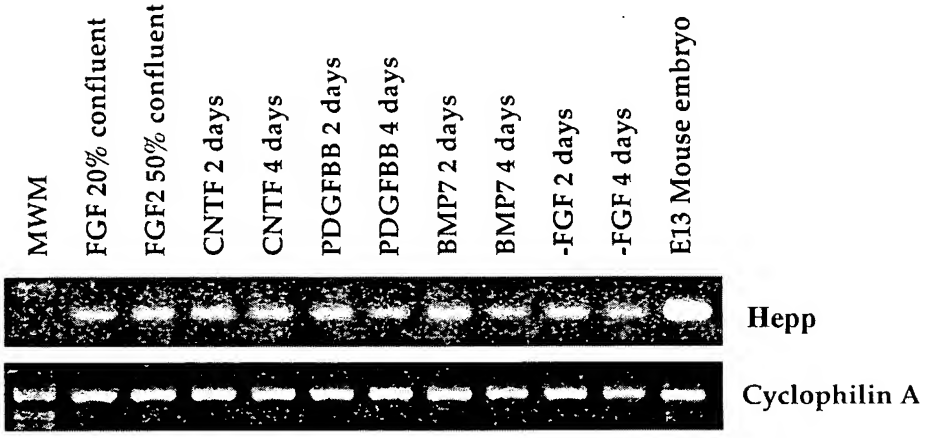
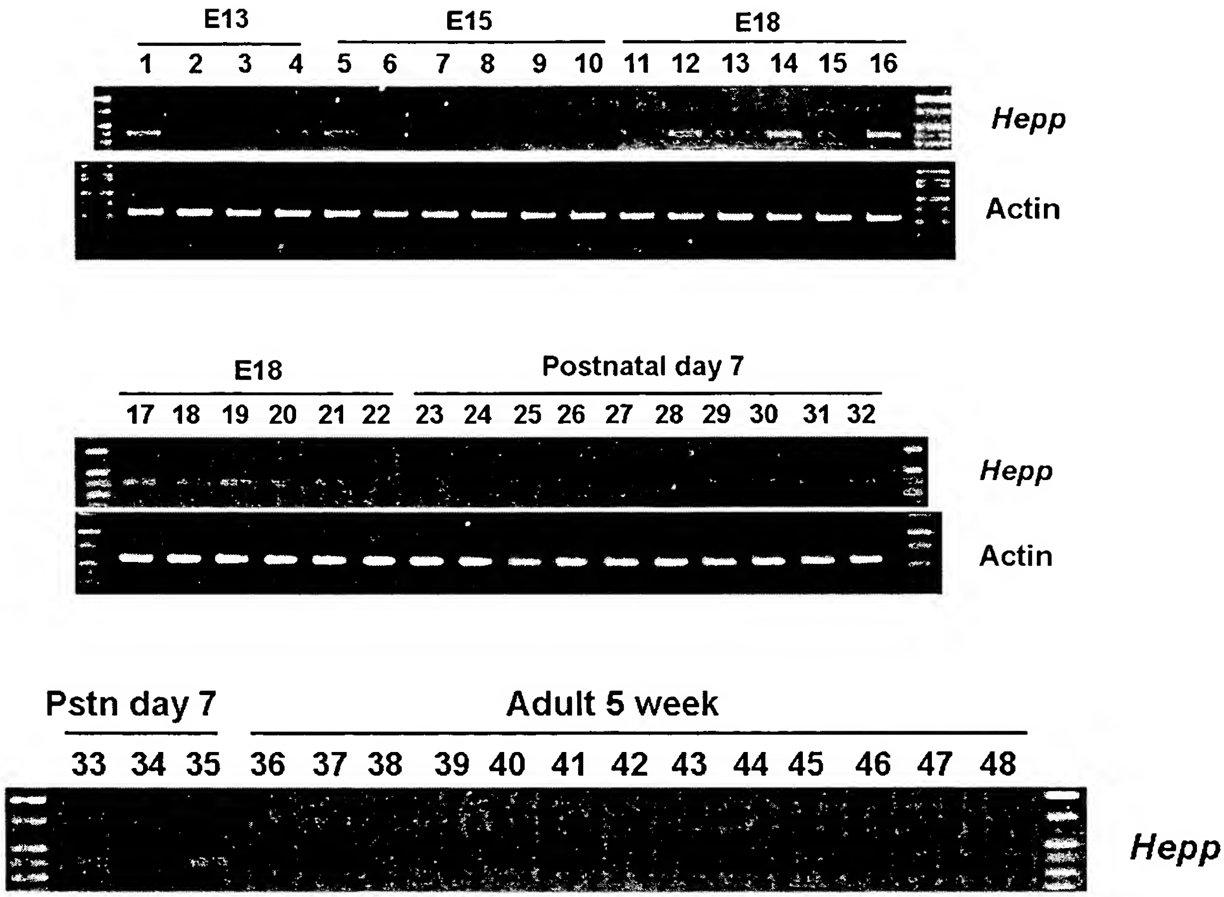


FIGURE 9



Embryo day 13
1. Telencephalon/Diencephalon
2. Mesencephalon (Midbrain)
3. Rhombencephalon (Hindbrain)
4. Spinal cord

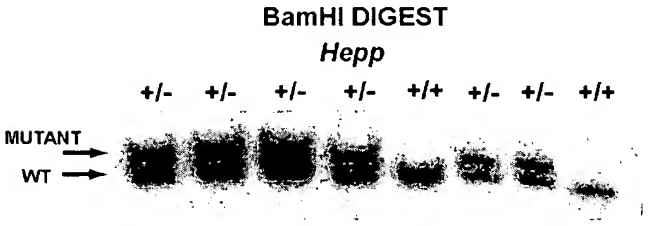
Embryo day 15
5. Telencephalon
6. Diencephalon
7. Midbrain
8. Pons
9. Medulla
10. Spinal cord

Embryo day 18
11. Frontal cortex
12. Posterior cortex
13. Entorhinal cortex
14. Olfactory bulb
15. Hippocampus
16. Striatum
17. Thalamus
18. Hypothalamus
19. Midbrain
20. Pons
21. Medulla
22. Spinal cord

Postnatal day 7
23. Frontal cortex
24. Posterior cortex
25. Entorhinal cortex
26. Olfactory bulb
27. Hippocampus
28. Striatum
29. Thalamus
30. Hypothalamus
31. Cerebellum
32. Midbrain
33. Pons
34. Medulla
35. Spinal cord

Adult 5 week
36. Frontal cortex
37. Posterior cortex
38. Entorhinal cortex
39. Olfactory bulb
40. Hippocampus
41. Striatum
42. Thalamus
43. Hypothalamus
44. Cerebellum
45. Midbrain
46. Pons
47. Medulla
48. Spinal cord

FIGURE 10



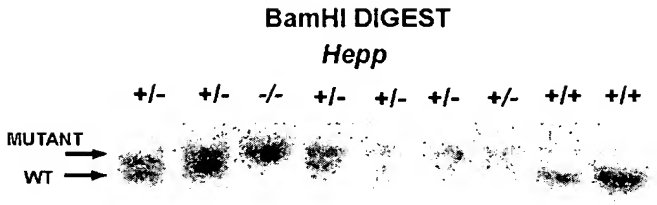


FIGURE 11

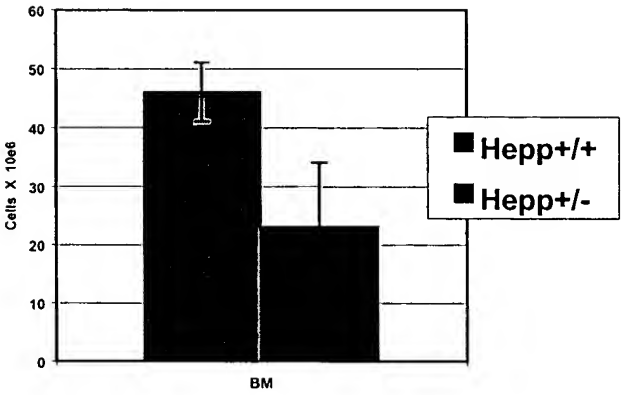


FIGURE 12

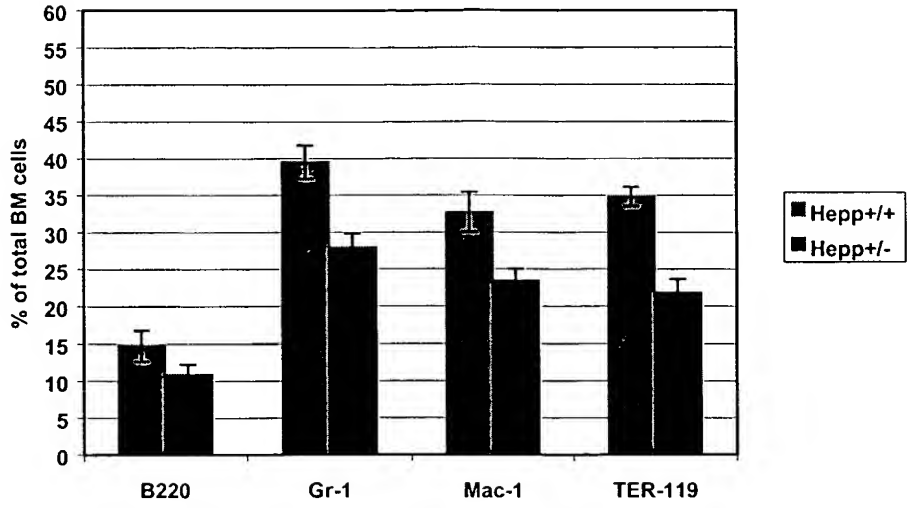


FIGURE 13

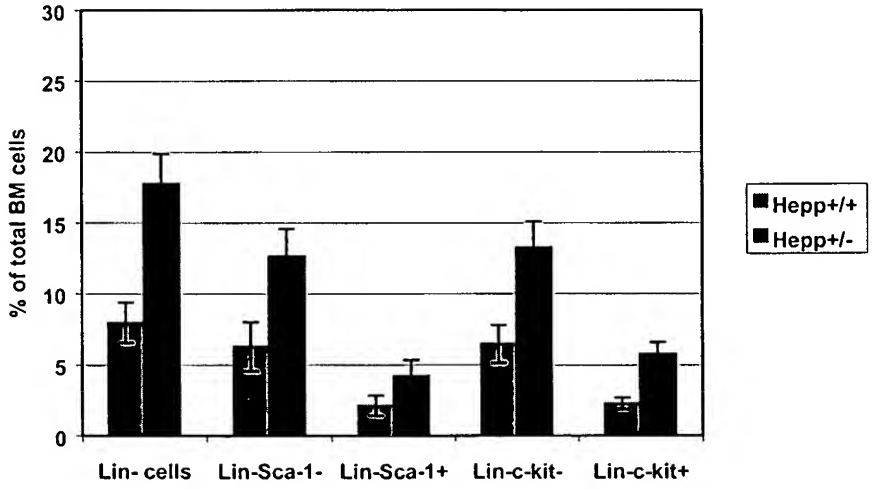


FIGURE 14

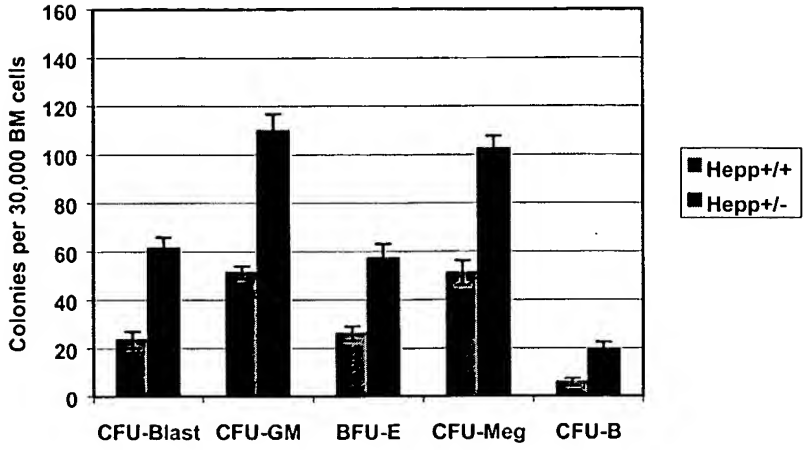


FIGURE 15A-B

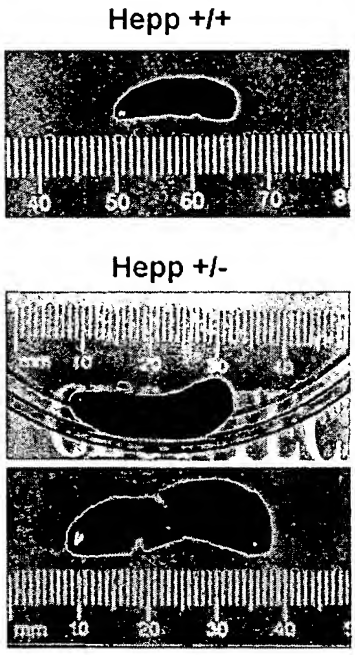


FIGURE 15C

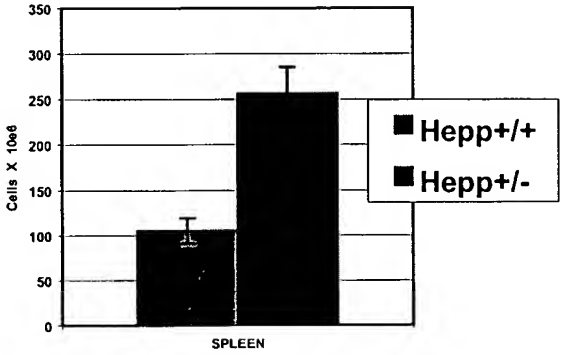


FIGURE 16

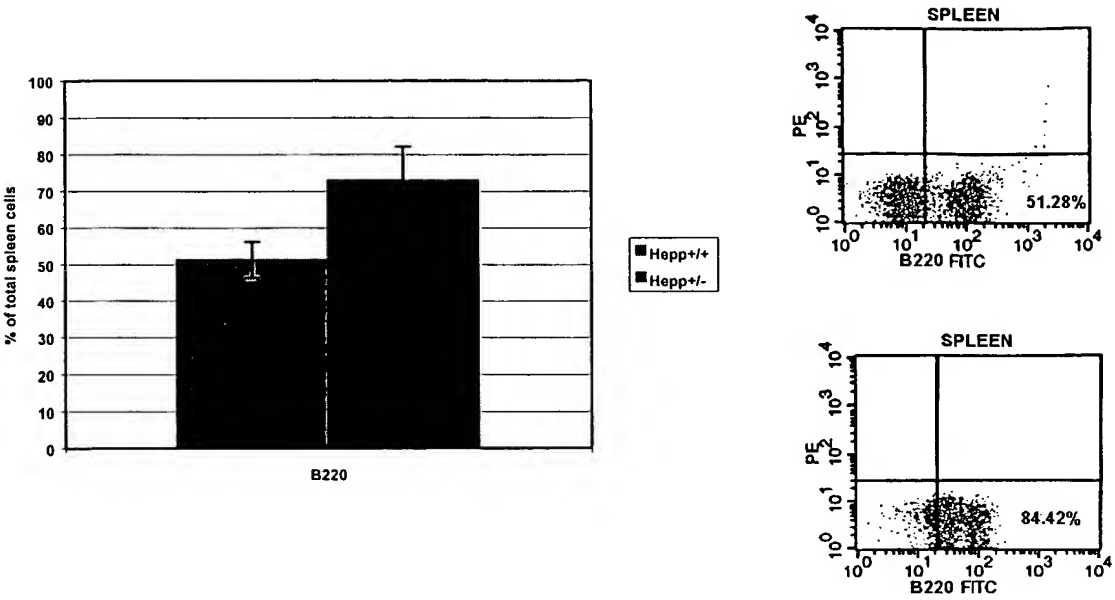


FIGURE 17

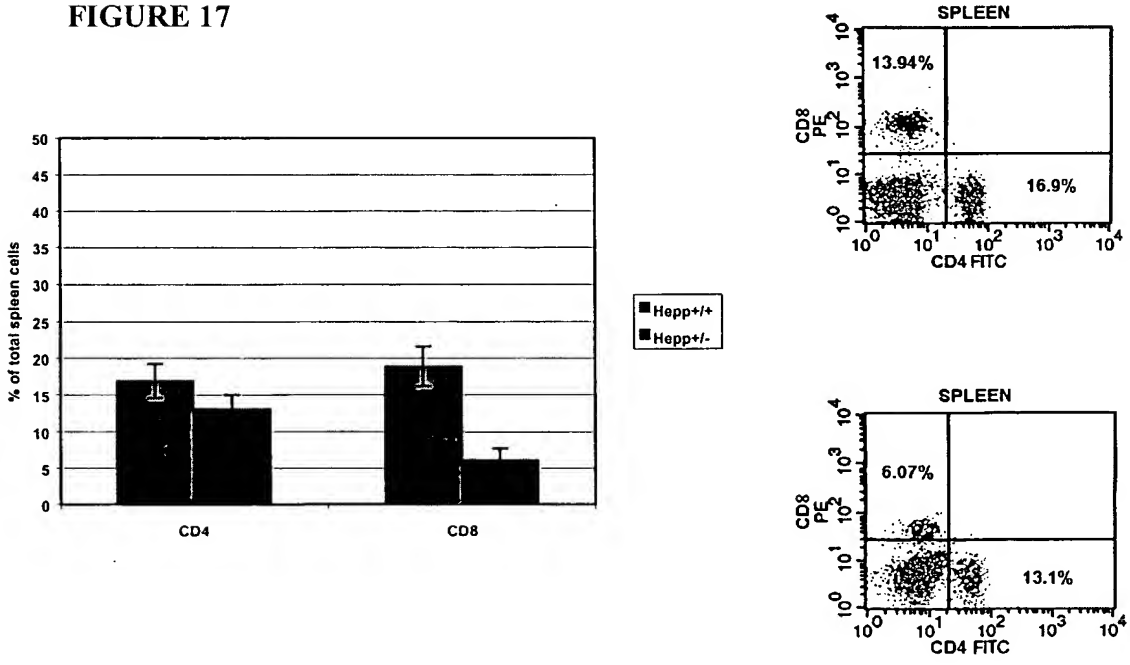


FIGURE 18A

FIGURE 18B

FIGURE 18C